



Attachment 1 consists of the following items:

- ✓ **Authorization and Eligibility Requirements.** This attachment consists of authorizing documentation, eligible applicant documentation, groundwater management plan compliance, groundwater monitoring program, and consistency with the adopted IRWM Plan. Resolution No. 2011-7468 authorizes the City of San Marcos to submit this grant proposal and execute an agreement with the State of California for IRWM planning activities (see Appendix 1-1).
- ✓ **Consistency with San Diego IRWM Plan.** To demonstrate consistency with the 2007 San Diego IRWM Plan, this proposal includes the IRWM Plan Amendment addressing the addition of new projects to the project list (Appendix 1-2). Appendix 1-3 contains a letter of acknowledgement from the San Diego RWMG that the *San Marcos Creek Floodway Improvement Project* was submitted to the online project database, as well as a copy of the online submittal form.

---

The City of San Marcos is submitting this grant proposal to request Proposition 1E funds for the *San Marcos Creek Floodway Improvement Project*. The objective of this project is to contain the 100-year storm flows within the channelized area of San Marcos Creek so that disadvantaged areas adjacent to the creek are removed from the floodplain. These activities would serve to reduce negative impacts on nearby Lake San Marcos and surrounding ecosystems due to excessive stormwater runoff. The project would restore native riparian vegetation within the regraded channel in order to increase nutrient uptake and reduce sediment flowing downstream into Lake San Marcos. These water quality improvements would also serve to improve water quality within and around Lake San Marcos so as to improve the reliability and quality of local water supply sources.

## **Authorization and Eligibility Requirements**

### **Authorizing Documentation**

Resolution No. 2011-7468 was adopted by the City Council of the City of San Marcos on April 12, 2011 and authorizes the City's Director of Engineering to submit this grant proposal and execute an agreement with the State of California for IRWM planning activities (see Appendix 1-1).

### **Eligible Applicant Documentation**

This grant proposal is being submitted by the City of San Marcos (San Marcos). San Marcos qualifies as a local agency because it is an incorporated city as defined in Section 216 of the Public Utilities Code. The authorizing documentation described above gives San Marcos the legal authority to enter into a grant agreement with the State of California and ensures that the City is committed to ensuring performance of this grant proposal and tracking of any awarded grant funds.

### **GWMP Compliance**

This grant proposal does not require compliance with or development of a groundwater management plan because it would not involve groundwater management or recharge. This proposal pertains to stormwater and flood management, and does not propose any direct action with regards to groundwater, and would not directly impact groundwater, either positively or negatively.

### **UWMP Compliance**

The City of San Marcos is not an urban water supplier, and is therefore not required to comply with requirements of the Urban Water Management Planning Act (CWC §10610 *et seq.*).

### **AB 1420 Compliance**

The City of San Marcos is not an urban water supplier, and is therefore not required to comply with requirements of AB 1420 as described within CWC §10631.

### **Water Meter Compliance**

The City of San Marcos is not an urban water supplier, and is therefore not required to comply with requirements set forth within CWC §529.5 for water meter compliance.

## **Consistency with San Diego IRWM Plan**

The San Diego Regional Water Management Group (RWMG) and Regional Advisory Committee (RAC) worked together to prepare a final San Diego IRWM Plan in late 2007. All three RWMG agencies adopted the IRWM Plan at that time (see Attachment 2). The RWMG applied for and DWR approved the San Diego IRWM Region during the 2009 Region Acceptance Process.

The *San Marcos Creek Floodway Improvement Project* included within this grant proposal is included within the 2007 San Diego IRWM Plan. As amended January 13, 2010, the San Diego IRWM Plan allows for periodic updates to the list of water management projects as new funding opportunities arise (see Appendix 1-2). The San Diego IRWM project list is currently hosted online at: [www.sdirwmp.org](http://www.sdirwmp.org) (click on “Projects” link in upper right).

The IRWM project list is available ‘live’ on the online project database for project sponsors to review and update at any time. Any project sponsor may submit a project for inclusion in the Plan and/or an upcoming grant opportunity. This makes it easier for sponsors to add or revise projects, integrate their projects with others, or add additional features so the projects provide multiple benefits. Appendix 1-3 contains the project submittal as submitted to the online project database, in accordance with the region’s project submittal procedures. In addition, Appendix 1-3 also contains a letter of acknowledgement from the San Diego RWMG that the *San Marcos Creek Floodway Improvement Project* was submitted into the online project database.

The *San Marcos Creek Floodway Improvement Project* contributes both directly and indirectly to the goals and objectives established in the San Diego IRWM Plan. Table 1-1 below demonstrates the goals and objectives listed within the 2007 San Diego IRWM Plan. Consistency between the proposed project and the adopted IRWM Plan objectives is fully described in Attachment 3.

**Table 1-1: San Diego IRWM Plan Goals and Objectives**

IRWM Plan Objective	Primary IRWM Plan Goals Implemented by Objective			
	Goal 1: Optimize water supply reliability	Goal 2: Protect and enhance water quality	Goal 3: Provide stewardship of our natural resources	Goal 4: Coordinate and integrate water resource management
A Maximize stakeholder/community involvement and stewardship	○	○	●	●
B Effectively obtain, manage, and assess water resource data and information	○	○	○	●
C Further the scientific and technical foundation of water quality management	○	○	●	●
D Develop and maintain a diverse mix of water resources	●			○
E Construct, operate, and maintain a reliable water infrastructure system	●			○
F Minimize the negative effects on waterways and watershed health caused by hydromodification and flooding		●	○	○
G Effectively reduce sources of pollutants and environmental stressors		●	○	○
H Protect, restore and maintain habitat and open space	○	○	●	○
I Optimize water-based recreational opportunities		○	○	●

- Primary IRWM Plan goal targeted by Plan objective
- Additional IRWM Plan goals targeted by Plan objective



## Appendix 1-1: Resolution of Authorization

### RESOLUTION NO. 2011-7468

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SAN MARCOS AUTHORIZING THE DIRECTOR OF ENGINEERING TO SUBMIT A PROPOSITION 1E IRWM STORMWATER FLOOD MANAGEMENT GRANT APPLICATION FOR THE SAN MARCOS FLOODWAY IMPROVEMENT PROJECT

WHEREAS, Proposition 1E, the Disaster Preparedness and Flood Prevention Bond Act of 2006 (Public Resources Code Section 5096.800 *et seq.*), authorized the California Legislature to appropriate \$300 million to encourage integrated regional water management (IRWM) planning in California; and

WHEREAS, Section 79560 of the California Water Code appropriated to the Department of Water Resources (DWR) funds for IRWM stormwater flood management grants and other purposes; and

WHEREAS, achieving IRWM grant funding will help to achieve the regional flood management goals established in the 2007 San Diego IRWM Plan; and

WHEREAS, the City of San Marcos participates in the San Diego IRWM program by attending the Regional Advisory Committee (RAC) meetings as an interested party; and

WHEREAS, grant application procedures established by DWR require applicants to provide a copy of a resolution adopted by the applicant's governing body designating an authorized representative to file an application for an IRWM stormwater flood management grant.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of San Marcos, California, as follows:

1. The above recitations are true and correct.

## Appendix 1-1: Resolution of Authorization

Resolution No. 2011-7468

Page 2

2. The Director of Engineering is authorized to prepare the necessary data, conduct investigations, and file a Proposition 1E Stormwater Flood Management grant application.

3. The Director of Engineering is authorized to enter into an agreement to receive a Proposition 1E Stormwater Flood Management grant from the California Department of Water Resources for the San Marcos Creek Floodway Improvement Project. BE IT FURTHER RESOLVED that a copy of this resolution will be transmitted to the DWR.

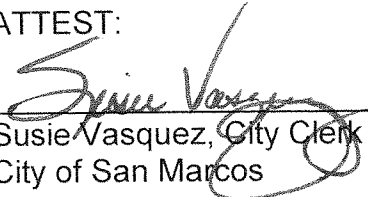
PASSED, APPROVED AND ADOPTED by the City Council of the City of San Marcos this 12th day of April, 2011, by the following roll call votes:


AYES: COUNCILMEMBERS: JABARA, JONES, MARTIN, ORLANDO, DESMOND

NOES: COUNCILMEMBERS: NONE

ABSENT: COUNCILMEMBERS: NONE

ATTEST:

  
Susie Vasquez, City Clerk  
City of San Marcos

  
James M. Desmond, Mayor  
City of San Marcos

**RESOLUTION No. 10-002****RESOLUTION OF THE SAN DIEGO COUNTY BOARD OF  
SUPERVISORS AMENDING THE 2007 SAN DIEGO  
INTEGRATED REGIONAL WATER MANAGEMENT PLAN**

**WHEREAS**, the San Diego Regional Water Management Group (RWMG), in close cooperation with the Regional Advisory Committee (RAC), drafted the first San Diego Integrated Regional Water Management (IRWM) Plan to optimize water supply reliability, protect and enhance of water quality, provide stewardship of natural resources and coordinate and integrate water resource management in the region; and

**WHEREAS**, the San Diego IRWM Plan is the foundation of long-term IRWM planning in the region, fostering coordination, collaboration, and communication among governmental and non-governmental water stakeholders; and

**WHEREAS**, carrying out the San Diego IRWM Plan and obtaining IRWM grant funding will help to achieve the County of San Diego Strategic Plan Environment Initiative; and

**WHEREAS**, the County of San Diego Board of Supervisors is the decision-making body for the County of San Diego; and

**WHEREAS**, on September 19, 2007, the RAC recommended that the RWMG governing bodies adopt the San Diego IRWM Plan; and

**WHEREAS**, the County of San Diego Board of Supervisor adopted the San Diego IRWM Plan at its November 7, 2007 meeting; and

**WHEREAS**, the RWMG would like to amend the San Diego IRWM Plan to facilitate the addition and revision of projects to the plan; and

**WHEREAS**, amendment of the San Diego IRWM Plan by the San Diego County Board of Supervisors will update the San Diego IRWM Plan in preparation for the San Diego Region's application for Proposition 84 and other potential funding; and

**NOW, THEREFORE, LET IT BE RESOLVED** that the County of San Diego Board of Supervisors resolves the following:

1. The 2007 San Diego Integrated Regional Water Management Plan is amended by the revision of the process for managing the IRWM project list as shown in Attachment 1.
2. Staff is directed to incorporate the amendment made by the resolution into the IRWM Plan.

APPROVED AS TO FORM AND LEGALITY  
COUNTY COUNSEL

BY Tom Boxworth  
COUNTY DEPUTY

## Appendix 1-2: IRWM Amendment

ON MOTION of Supervisor Roberts, seconded by Supervisor Horn, the above Resolution was passed and adopted by the Board of Supervisors, County of San Diego, State of California, on this 13<sup>th</sup> day of January, 2010, by the following vote:

AYES: Cox, Jacob, Slater-Price, Roberts, Horn  
- - -

STATE OF CALIFORNIA)  
County of San Diego)<sup>SS</sup>

I hereby certify that the foregoing is a full, true and correct copy of the Original Resolution entered in the Minutes of the Board of Supervisors.

THOMAS J. PASTUSZKA  
Clerk of the Board of Supervisors

By: Nancy Vizcarra  
Nancy Vizcarra, Deputy



No. 10-002

01/13/2010 (8)

### **2007 San Diego IRWM Plan**

#### **New text for Section G (Implementation):**

##### *G.5 Managing the IRWM Project List*

Periodic updates to the list of water management projects must be made as new funding opportunities arise. Updating the project list will allow additional projects to be added, as project concepts are refined to address changing conditions and needs in the Region. This opportunity also will enable the project sponsors to revise their project submittals as necessary.

The San Diego IRWM project list is included in the Plan as Appendix 5. Any sponsor may submit a project for inclusion in the Plan. The Regional Water Management Group (RWMG) will decide whether to add a submitted project to Appendix 5 after reviewing it to ensure it is consistent with the Plan. The RWMG will notify the sponsor of its decision to accept or reject a project. This structure facilitates the addition of projects to the Plan. It also makes it easier for sponsors to add or revise projects, integrate their projects with others, or add additional features so the projects provide multiple benefits.

When the RWMG decides to submit an application for a grant or other funding opportunity, it will work with the Regional Advisory Committee (RAC) to form a technical workgroup that will review the projects in Appendix 5 and recommend which to submit for funding. All grant applications, including projects proposed for funding, will be submitted to the RAC for its consideration and recommendation. The ultimate approval of the application and projects submitted for funding lies with the Board of Directors of the San Diego County Water Authority, the agency authorized to submit grant applications on behalf of the RWMG.

## Appendix 1-3: Online Submittal Acknowledgement and Form



April 12, 2011

Attn: Paul Vo  
Principle Civil Engineer  
City of San Marcos  
1 Civic Center  
San Marcos, CA 92009

Subject: San Marcos Creek Floodway Improvement Project

Dear Mr. Vo,

The San Diego Regional Water Management Group (RWMG), representing the San Diego Integrated Regional Water Management (IRWM) program, has reviewed the San Marcos Creek Floodway Improvement Project that will be submitted for funding under the Department of Water Resources (DWR) Proposition 1E Stormwater Flood Management Grant Program.

This letter confirms that the San Marcos Creek Floodway Improvement Project is a part of the San Diego IRWM Plan. As amended, the San Diego IRWM Plan allows for periodic updates to the list of water management projects as new funding opportunities arise. The San Marcos Creek Floodway Improvement Project was successfully added to the online project database (see [www.sdirwmp.org](http://www.sdirwmp.org)) in accordance with regional project submittal procedures.

*The San Marcos Creek Floodway Improvement Project is an important regional project that will reduce flooding hazards and improve water quality in a disadvantaged community.* The project contributes to several IRWM Plan objectives: maximizing stakeholder involvement; managing water resources data; developing a diverse mix of water supplies; reducing the negative effects of hydromodification and flooding; reducing sources of pollutants; and optimizing water-based recreational opportunities.

The San Diego RWMG fully supports the San Marcos Creek Floodway Improvement Project and encourages DWR to recommend the project for funding under the Proposition 1E Stormwater Flood Management Grant Program.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Stadler".

Mark Stadler  
San Diego IRWM Program Manager

## Appendix 1-3: Online Submittal Acknowledgement and Form



PROJECT DESCRIPTION		
<b>Project Title</b>		
1. Project Title	The San Marcos Creek Floodway Improvement Project	
<b>Project Contact</b>		
2. Name	Lisa Fowler	
3. Title	Development Services Analyst	
4. Agency/Organization	City of San Marcos	
5. Address 1	1 Civic Center	
6. City, State, and Zip Code	City: San Marcos, CA 92009	
7. Phone	(760) 744 - 1050 Ext: 3248	
8. Email	lfowler@san-marcso.net	
9. Can your contact information be shared?	No,	
<b>Project Location</b>		
10. Describe Project Location	The San Marcos Creek Floodway Improvement Project is located south of Discovery Street, between Via Vera Cruz and Bent Avenue in the City of San Marcos.	
11. Project Acreage	214.00	
12. Latitude / Longitude Coordinates	Latitude: 33.13215	Longitude:-117.18343
<b>Project Website</b>		
13. URL to Project Website (If Available)		
<b>Project Partners</b>		
<input checked="" type="checkbox"/> 14. List Project Partners (Agency/Organization)	The City of San Marcos is the Lead Agency for the Upper San Marcos Creek Watershed Voluntary Nutrient Total Maximum Daily Load (TMDL). Currently the participation agreement includes the Vallecitos Water District, Caltrans, County of San Diego, and the San Marcos Unified School District.	
<input type="checkbox"/> The San Diego RWMG, Upper Santa Margarita RWMG, and South Orange County RWMG collaborate in an inter-regional body established via MOU and known as the Tri-County FACC. The Tri-County FACC enables the three RWMGs to balance the necessary autonomy of each planning region to plan at the appropriate scale with the need to improve inter-regional cooperation and efficiency. Please note if your proposed project includes partnerships with any of the Tri-County FACC agencies in shared watersheds.15. Partnerships with		

## Appendix 1-3: Online Submittal Acknowledgement and Form

Tri-County FACC or International Organizations?	
<b>Project Need</b>	
16. Describe Need for Project (1-2 paragraphs)	The area most significantly impacted by a lack of proper flood control infrastructure is the San Marcos Creek District. In times of heavy rain the community surrounding the channel becomes engulfed in water. Additionally, the flooding creates a negative impact on the immediate ecosystems, agriculture, and lake water quality. Currently Lake San Marcos is facing severe sediment and nutrient imbalance as a result of the flood waters unrestricted flow downstream. Furthermore, Lake San Marcos and San Marcos Creek are both listed as impaired on the California Regional Water Quality Control Board 2008 303 (d) list of impaired water body segments. The purpose of the work proposed in the San Marcos Creek Floodway Improvement Project is to contain the 100-year storm event within the channelized area so that areas adjacent to the creek are removed from the flood plain while reducing the impact on the nearby lake water quality and surrounding ecosystems.
<b>Project Type</b>	
17. Functional Area	Flood Control,
18. Project Type	Construction Project,
<b>Primary Water Management Strategy</b>	
19.	Floodplain Management,
<b>Project Description</b>	
20. Project Summary	The purpose of the work proposed in the San Marcos Creek Floodway Improvement Project is to contain the 100-year storm event within the channelized area so that areas adjacent to the creek are removed from the flood plain while reducing the impact on the nearby lake water quality and surrounding ecosystems.
21. Project Description	The San Marcos Creek Floodway Improvement Project includes the implementation of a floodwall, channel grading, and subsequent restoration and mitigation. The project improvements will include the construction of floodwall along Discovery Street between Via Vera Cruz and Bent Avenue. The floodwall system will be designed in accordance with the Federal Emergency Management Agency (FEMA) guidelines and specifications. Channel grading and restoration will also be completed to minimize erosion and improve the aquatic ecosystem and reduce in stream erosion and sediment. The project will be broken into four phases for completion. The first phase will incorporate the required design, environmental documentation and permitting for a project of this magnitude. The next two phases will involve construction of the floodwall and channel grading respectively. The fourth phase will be dedicated to restoration of the impacted area.
<input checked="" type="checkbox"/> 22. Identify Linkages with Other Projects	Two federally funded bridge projects will be designed simultaneously with the proposed floodwall to provide a symbiosis in the construction of the infrastructure. Although they are independent projects City staff believes that the benefits of designing these projects simultaneously will provide significant time and economical benefits. San Marcos Creek District Improvement Project will also give way to the Creek District Promenade Project currently being designed by the City and seeking funding from the Proposition 84 Urban Greening Grant Program.
<input checked="" type="checkbox"/> 23. Local/Regional Plans Which List the Project Please see the <a href="#">San Diego IRWM Plan Appendix 13</a> for a summary of the region's local water management plans.	Carlsbad Watershed Urban Runoff Management Plan is prepared to comply with the requirements of the San Diego Regional Water Quality Control Board (SDRWQCB) Order No. R9 2007-0001. The document is prepared by jurisdictions that are located in the Carlsbad Hydrographic Unit (HU 904.50). The City of San Marcos USMC Nutrient Management Plan is included as part of the CWURMP and the activities identified in the USMC were developed to address the nutrient impairments in HSA 904.52 and 904.53.
<input type="checkbox"/> 24. Creates New WaterOne Sentence Description of How Project Creates New Water	
<b>Readiness to Proceed</b>	
25. Ready to be Considered for Prop 84 Implementation Grant? Projects must yield multiple benefits for water supply, wastewater, flood control, stormwater, and/or natural resources and watersheds.	Yes,
26. Ready to be Considered for Prop 1E Storm Water Flood Management Grant? Projects should be "designed	Yes,

## Appendix 1-3: Online Submittal Acknowledgement and Form

to manage stormwater runoff to reduce flood damage".		
27. Does project directly address the critical water quality and water supply issues of a disadvantaged community? Click <a href="#">Here</a> for Disadvantaged Communities Map. Click <a href="#">Here</a> for Disadvantaged Communities Map (Center City).	Yes	Yes, The project actively fixes impaired waterways in an economically disadvantaged community and flood prevention.
<b>Project Budget</b>		
28. Estimated Maximum Project Cost	\$12,175,017.00	
29. Estimated Minimum Project Cost	\$12,175,017.00	
30. Amount of Grant Funds Requested	\$6,087,509.00	
<input checked="" type="checkbox"/> 31. Has Project Integration Occurred? Please describe what integration occurred following the workshop	Yes, the project is integrated in the Upper San Marcos Creek Watershed Plan. The City of San Marcos is the Lead Agency for the Upper San Marcos Creek Watershed Voluntary Nutrient Total Maximum Daily Load (TMDL).	
<b>REGIONAL OBJECTIVES &amp; IMPACTS</b>		
<b>Contribution to IRWM Plan Objectives - Select All That Apply</b>		
<b>Provide One Sentence Description of How Project Contributes to IRWM Plan Objective.</b>		
<input checked="" type="checkbox"/> 1. Objective A: Maximize stakeholder/ community involvement and stewardship.	The project maximizes stakeholder involvement through partnerships with other local agencies, water districts and school districts to implement the identification of nutrient sources, load allocations, and abatement strategies to address the water impairment issues in San Marcos Creek.	
<input checked="" type="checkbox"/> 2. Objective B: Effectively obtain, manage, and assess water resource data and information.	The City of San Marcos has implemented several technical studies and analysis to obtain, manage, and assess the local water resources. The resulting data from these resources has solidified the need for the implementation of the project.	
<input type="checkbox"/> 3. Objective C: Further scientific and technical foundation of water management.		
<input checked="" type="checkbox"/> 4. Objective D: Develop and maintain a diverse mix of water resources.	Implementation of the San Marcos Creek Floodway Improvement Project will protect and maintain the integrity of San Marcos Creek, Lake San Marcos, and local storm waters by properly restricting the flow of water through the channel.	
<input type="checkbox"/> 5. Objective E: Construct, operate, and maintain a reliable infrastructure system.		
<input checked="" type="checkbox"/> 6. Objective F: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding.	One of the main objectives of the project is to reduce the 100-yr storm flows within the San Marcos Creek Channel and reduce negative effects on waterways by eliminating flooding on surface streets and surrounding areas that contribute to the contaminated water to flow to Lake San Marcos.	
<input checked="" type="checkbox"/> 7. Objective G: Effectively reduce sources of pollutants and environmental stressors.	The project includes drainage facilities that are capable of conveying 100-year on-site storm flows to San Marcos Creek without adversely impacting on-site flow rates. Drainage improvements include a new North Storm Drain System, which would allow for the surface runoff to be treated properly.	
<input checked="" type="checkbox"/> 8. Objective H: Protect, restore and maintain habitat and open space.	Phase four of the San Marcos Creek Floodway Improvement Project are dedicated to the restoration and mitigation of the creek site to preserve and maintain the natural habitat of the area.	
<input checked="" type="checkbox"/> 9. Objective I: Optimize water-based recreational opportunities.	The project will directly affect the flow of water to Lake San Marcos and lay the foundation for the City to implement the Creekside Promenade Project. Improved lake water will increase the community's recreational opportunities, while the Creekside Promenade Project will be a demonstrative project.	

## Appendix 1-3: Online Submittal Acknowledgement and Form

<b>Affected Hydrologic Unit(s)</b>	
10. Hydrologic Units - Select All That Apply (Click <a href="#">Here</a> for Map)	
11. One Sentence Description of How Hydrologic Unit(s) Affected	The Carlsbad HU 904.50 is affected by nutrients in the project area and bacteria. The CWURMP prepared for HU 904.5 identifies the activities that address these concerns.
<b>Affected Groundwater Basin(s)</b>	
12. Groundwater Basins - Select All That Apply (Click <a href="#">Here</a> for Map)	San Marcos Area, San Mateo Valley,
13. One Sentence Description of How Groundwater Basin(s) Affected	The lack of a balanced stream system in the San Marcos Area reduces the ability of the basin to recharge with a higher level of water quality.
<b>Affected Impaired Water Body(s): (Click <a href="#">Here</a> for Map)</b>	
14. Inland Surface Waters	Lake San Marcos, San Marcos Creek,
15.	
16. Coastal Waters	San Marcos Creek Beaches,
<b>Affected Beneficial Use(s)</b>	
17. Beneficial Uses	Agricultural Supply (AGR), Contact Water Recreation (REC-1), Industrial Service Supply (IND), Municipal and Domestic Supply (MUN), Non-contact Water Recreation (REC-2), Warm Freshwater Habitat (WARM), Wildlife Habitat (WILD),
18.	Inland Surface Waters: AGR, REC1, REC2. WARM. WILD Groundwater: MUN, AGR, IND
<b>Planning for Climate Change</b>	
19. Describe how the project will adapt to long-term climate change (warmer temperatures, extended drought, extreme storms, sea level rise)	
20. Describe how the project will mitigate its contribution to climate change (energy efficiency, limits on greenhouse gas emissions, water conservation)	The City of San Marcos utilizes groundwater in the San Marcos groundwater basin to irrigate municipal greenscape and recreational areas. The project enhances groundwater recharge and reduces independence on imported water including the energy footprint of imported water sources.
<b>WATER MANAGEMENT STRATEGIES</b>	
<b>Water Management Strategies - Select All That Apply.</b>	
<b>Provide One Sentence Description of How Project Employs Water Management Strategy.</b>	
<input checked="" type="checkbox"/> 1. Agricultural Land Stewardship: Includes strategies for promoting continued agricultural use of lands, strategies to reduce pollutants from agricultural lands, and strategies to maintain and create wetlands and wildlife habitat within agricultural lands.	The project reduces pollutant loads from the upper san marcos watershed agricultural sources identified in the Upper San Marcos Nutrient Management Plan through establishment of a stabilized stream system that reduces sediment and pollutant loading from upstream agricultural sources.
<input type="checkbox"/> 2. Agricultural Water Use Efficiency: Increasing water use efficiency and achieving reductions in the amount of water used for agricultural irrigation. Includes incentives, public education, and other efficiency-enhancing programs.	
<input checked="" type="checkbox"/> 3. Groundwater Management: Using and managing groundwater supplies to ensure sustainable groundwater yields while	The project enhances groundwater recharge in the San Marcos area groundwater basin utilized by local sources for agricultural irrigation of groves through stabilizing the stream system.

## Appendix 1-3: Online Submittal Acknowledgement and Form

maintaining groundwater-dependent beneficial uses.	
<input checked="" type="checkbox"/> 4. Conjunctive Use & Groundwater Storage: Coordinating management of groundwater and surface water supplies to enhance reliability.	<p>The project enhances groundwater recharge in the San Marcos area groundwater basin utilized by local sources for agricultural irrigation of groves through stabilizing the stream system.</p>
<input type="checkbox"/> 5. Regional Conveyance: Maintaining, optimizing use of, and increasing the reliability of regional treated and untreated water conveyance facilities. Included within this strategy is maintaining the ability to obtain and convey imported water supplies into the Region.	
<input type="checkbox"/> 6. Desalination: Developing potable water supplies through desalination of seawater. Includes disposal of waste brine.	
<input type="checkbox"/> 7. Potable Water Treatment & Distribution: Includes improving the quality of the potable supply delivered to potable water customers by increasing the degree of potable water treatment. Strategy also may include conveyance system improvements that improve the quality of supply delivered to treatment facilities.	
<input type="checkbox"/> 8. Economic Incentives: Includes economic incentives (e.g. loans, grants, water pricing) to promote resource preservation or enhancement.	
<input checked="" type="checkbox"/> 9. Ecosystem Restoration: Strategies that restore impacted or impaired ecosystems, and may include invasive species removal, land acquisition, water quality protection, revegetation, and protection or restoration of natural flow hydrology.	<p>The project proposes to implement a stabilized stream system in the upper San Marcos creek. The stabilization and enhancement of the creek system with functioning habitats slow water velocities down and allow for natural water quality uptake of native habitats. The current IBI scores for San Marcos Creek are poor.</p>
<input type="checkbox"/> 10. Environmental and Habitat Protection & Improvement: Includes multiple species conservation programs, land conservation, wetlands creation and enhancement, habitat protection and improvement, and habitat management and species monitoring.	
<input type="checkbox"/> 11. Floodplain Management: Strategies that decreasing the potential for flood-related damage to property or life including control or management of floodplain lands or physical projects to control runoff.	
<input type="checkbox"/> 12. Groundwater Aquifer Remediation: Includes strategies that remove pollutants from contaminated groundwater aquifers through pumping and treatment, in situ treatment, or other means.	
<input checked="" type="checkbox"/> 13. Matching Quality to Use:	<p>Groundwater is used locally by agriculture, the city, and private entities for groves and</p>

## Appendix 1-3: Online Submittal Acknowledgement and Form

Optimizing existing resources by matching the quality of water supplies to the required quality associated with use.	greenscapes and /or golf courses. The project proposes to enhance water quality available for recharge into the groundwater suitable for uses identified in the basin plan and currently in use.
<input checked="" type="checkbox"/> 14. Pollution Prevention: Strategies that prevent pollution, including public education, efforts to identify and control pollutant contributing activities, and regulation of pollution-causing activities. Includes identifying, reducing, controlling, and managing pollutant loads from non-point sources.	The City of San Marcos is partnering with the SDRWQCB and other jurisdictions to implement a nutrient management plan and identify sources of nutrients in the project area. The stream stabilization element of the project is a key element to the nutrient management plan to address pollutant loading.
<input checked="" type="checkbox"/> 15. Water Quality Protection & Improvement: Strategies that seek to improve surface and groundwater quality, including planning and implementing stormwater capture and treatment, using biological treatment of surface waters, and reducing pollutant loading to groundwater supplies.	The City, County, Caltrans, and the Vallecitos Water District have entered into a participation agreement to implement a diagnostic study to identify load allocations for the Upper San Marcos Creek in the project area.
<input type="checkbox"/> 16. Wastewater Treatment: Includes wastewater collection and/or treatment system expansion, maintenance, and rehabilitation, and sewer spill prevention programs.	
<input type="checkbox"/> 17. Recharge Area Protection: Includes land use planning, land conservation, and physical strategies to protect areas that are important sources of groundwater recharge.	
<input type="checkbox"/> 18. Recycled Municipal Wastewater: Developing usable water supplies from treated municipal wastewater. Includes recycled water treatment, distribution, storage, and retrofitting of existing uses.	
<input type="checkbox"/> 19. Regional Surface Storage: Developing additional yield through construction or modification (enlargement) of local or regional surface reservoirs or developing surface storage capabilities in out-of-region reservoirs.	
<input type="checkbox"/> 20. Reoperation & Reservoir Management: Managing surface storage facilities to optimize the availability and quality of stored water supplies and to protect/enhance beneficial uses. Includes balancing supply and delivery forecasts, coordinating and interconnecting reservoir storage, and optimizing depth and timing of withdrawals.	
<input checked="" type="checkbox"/> 21. Land Use Management: Includes land use controls to manage, minimize, or control activities that may negatively affect the quality and availability of groundwater and surface waters, natural resources, or endangered or	The project is part of an overall Specific Plan area that has a master water quality plan to address surface water quality issues for all projects and the proposed project coming into a critical area of the watershed.

## Appendix 1-3: Online Submittal Acknowledgement and Form

threatened species.	
<input checked="" type="checkbox"/> 22. Urban Runoff Management: Includes strategies for managing or controlling urban runoff, including intercepting, diverting, controlling, or managing stormwater runoff or dry season runoff.	
<input checked="" type="checkbox"/> 23. Urban Water Use Efficiency: Increasing water use efficiency by achieving reductions in the amount of water used for municipal, commercial, industrial, irrigation, and aesthetic purposes. Includes incentives, public education, and other efficiency-enhancing programs.	
<input type="checkbox"/> 24. Water Transfers: Contracting to provide additional outside sources of imported water to the Region over and above contracted State Water Project and Colorado River supplies	
<input type="checkbox"/> 25. Recreation & Public Access: Enhancing and protecting water-dependent recreational opportunities and public access to recreational lands.	
<input checked="" type="checkbox"/> 26. Watershed Management & Planning: Comprehensive management, protection, and enhancement of groundwater and surface waters, natural resources, and habitat	
<input checked="" type="checkbox"/> 27. Stakeholder/Community Involvement: Strategies to involve stakeholders in water resources planning or management activities, including public outreach and education.	
<input type="checkbox"/> 28. Water Resources Data Collection & Management: Includes collection, analysis, and management of water resources data to support regional water management activities.	
<input checked="" type="checkbox"/> 29. Enhance Scientific and Technical Knowledge: Includes technical and scientific analysis to support regulatory compliance issues and options, regional coordination, and compliance.	The project is located within a voluntary stakeholder group to reduce nutrient loading in the upper San Marcos creek. The water quality and biotic metrics resulting from the project will assist the SDRWQCB and enhance regulatory knowledge for regional nutrient load reduction in inland creeks and streams and the best methods to comply with basin plan objectives supportive of beneficial uses.
<input type="checkbox"/> 30. Salt & Salinity Management: Strategies to manage salt loading within surface and groundwater supplies, including basin planning efforts.	
<input type="checkbox"/> 31. Other	
<b>Statewide Priorities - Select All That Apply</b>	
<b>Provide One Sentence Description of How Project Implements Statewide Priority</b>	

## Appendix 1-3: Online Submittal Acknowledgement and Form

<input type="checkbox"/> 32. Drought Preparedness	
<input type="checkbox"/> 33. Use and Reuse Water More Efficiently	
<input type="checkbox"/> 34. Expand Environmental Stewardship	
<input type="checkbox"/> 35. Practice Integrated Flood Management	
<input checked="" type="checkbox"/> 36. Protect Surface Water and Groundwater Quality	
<b>Program Preferences - Select All That Apply</b>	
<b>Provide One Sentence Description of How Project Implements Program Preference.</b>	
<input type="checkbox"/> 37. Improve Tribal Water and Natural Resources	
<input type="checkbox"/> 38. Ensure Equitable Distribution of Benefits	
<input type="checkbox"/> 39. Include regional projects or programs	
<input type="checkbox"/> 40. Effectively integrate water management programs and projects within a DWR-approved region	
<input type="checkbox"/> 41. Effectively integrate water management with land use planning	
<input type="checkbox"/> 42. Effectively resolve significant water-related conflicts within or between regions	
<input type="checkbox"/> 43. Contribute to the attainment of one or more objectives of the CALFED Bay-Delta Program	
<input type="checkbox"/> 44. Address Statewide Priorities	
<input type="checkbox"/> 45. Address critical water supply or water quality needs for disadvantaged communities within the region	
<input type="checkbox"/> 46. Other (please specify)	
<b>STAKEHOLDER OUTREACH &amp; PROJECT FEASIBILITY</b>	
<b>Stakeholder Outreach and Involvement</b>	
1. Describe Public Outreach and Involvement Methods	
2. Elaborate on Outreach Methods Used to Reach Disadvantaged/Environmental Justice Communities	
<b>Overall Project Benefits and Impacts</b>	
3. Description of Overall Project Benefits	Analysis of potential BMPs and treatment systems demonstrate an expected decrease in pollutant loading when comparing the existing site conditions to the built-out Specific Plan for San Marcos. Therefore, this Stormwater Flood Management Grant Proposal

## Appendix 1-3: Online Submittal Acknowledgement and Form

	would help to address significant water quality issues within San Marcos Creek, and ultimately Lake San Marcos (Ogawa 2010). In addition to water quality issues, flooding is considered a significant issue within the downtown San Marcos area.	
4. Description of Overall Project Impacts	One of the project objectives is to bring the 100-year storm flows within the constraints of the improved channel, thereby eliminating the flooding of San Marcos Boulevard and adjacent surface streets, adjacent residences and businesses, and portions of SR-78. The creek improvement portion of the project would include alterations of the creek through construction of a levee and other flood control measures. By design, these features would channelize the course of the creek.	
<b>Disadvantaged and Environmental Justice Communities</b>		
<input type="checkbox"/> A DAC is a community with an annual Median Household Income (MHI) that is less than 80% of the statewide annual MHI. The statewide MHI for the year 2000 was \$46,000. Therefore, communities with a MHI of \$37,520 (80% of \$46,000) are considered DACs. Please see <a href="#">San Diego's Region Acceptance Process Application, Section 3</a> for a table/map of economically disadvantaged census tracts within the region.5. Description of How the Project Benefits Disadvantaged / Environmental Justice Communities		
6. Description of Any Potential Impacts to Disadvantaged / Environmental Justice Communities		
<b>Project Photos/Maps</b>		
7. Upload Project Photos and Maps	<a href="#">[x]SMCFloodwayImpProj_Fig1RegionalMap.pdf(563.45KB)</a> <a href="#">[x]SMCFloodwayImpProj_Fig2ProjectMap.pdf(870.26KB)</a>	
<b>Environmental Compliance</b>		
8. List Regulatory Permit(s)	The project will be required to obtain a Lake/Streambed Alteration Agreement, commonly referred to as a Section 1602 Streambed Alteration Agreement. the project will also be required to obtain a Water Quality Certification that the improvement project will comply with State water quality requirements, per Clean Water act (CWA) Section 401and require a permit from the Corps under CWA Section 404.	
9. List CEQA/NEPA Document(s)	The construction and implementation of the San Marcos Creek Floodway Improvement Project will comply with all State environmental requirements including the California Environmental Quality Act (CEQA). Per CEQA regulations, the City prepared an Environmental impact Report (EIR) to assess the potential environmental impacts of the proposed San Marcos Creek District improvements.	
<b>Feasibility Documentation</b>		
10. List Feasibility Study(s)		
11. Describe Need for Project (1-2 paragraphs)	The project would include alterations of the creek through construction of a levee and other flood control measures. By design, these features would channelize the course of the creek. Additionally, surface runoff would be treated in consistent with requirements by the RWQCB.	
<b>Project Schedule</b>		
12. Planning	Start Date:	Finish Date:
13. Design/Engineering	Start Date: 07/11/2011	Finish Date: 10/31/2013
14. Environmental Documentation	Start Date: 08/31/2011	Finish Date: 11/30/2011
15. Construction	Start Date: 12/01/2012	Finish Date: 10/31/2013
<b>Project Budget</b>		
16. Estimated Maximum Project Cost	\$12,175,017.00	
17. Estimated Minimum Project Cost	\$12,175,017.00	
18. Grant Funds Requested	\$6,087,509.00	

## Appendix 1-3: Online Submittal Acknowledgement and Form

19. Estimated Local Match Amount	\$6,087,509.00	
20. Describe Match Type	City Funds	
21. Annual Operations & Maintenance Cost		
<b>Project Eligibility</b>		
22. For urban water suppliers only: In compliance with Urban Water Management Plan (UWMP) Act?	Yes	
23. For urban water suppliers only: In compliance with AB1420?	Yes	
24. For groundwater management or recharge projects only: In compliance with a Groundwater Management Plan?	Yes	
<b>IRWM PLAN METRICS</b>		
<b>Contribution to IRWM Plan Metrics</b>		
<b>Provide One Sentence Description of How Project Contributes to IRWM Plan Metrics</b>		
<b>Objective A: Maximize stakeholder/ community involvement and stewardship.</b>		
1. Target 1. Develop by 2009 a regional IRWM website to provide centralized public access to water management data and information. Completed. The <a href="#">San Diego IRWM</a> website was kicked off in 2007.		
<input type="checkbox"/> 2. Target 2. Develop by 2008 and implement by 2010 regional approaches to water management education.		
<input type="checkbox"/> 3. Target 3. Conduct water management outreach and solicit input from 2% of Region's population each year, including underserved and disadvantaged communities.		
<input type="checkbox"/> 4. Target 4. Provide `hands-on` stewardship opportunities in the Region's watersheds to 1% of Region's population each year, including underserved and disadvantaged communities.		
<b>Objective B: Effectively obtain, manage, and assess water resource data and information.</b>		
<input type="checkbox"/> 5. Target 1. Develop standards for the integration and assessment of water management data and information by 2010.		
<input type="checkbox"/> 6. Target 2. Provide centralized public access to key water management data sets by 2010.		
<b>Objective C: Further scientific and technical foundation of water management.</b>		
<input type="checkbox"/> 7. Target 1. By 2010, develop an agreed-upon system and metrics for tracking the progress of Basin plan validation efforts through coordination with Regional Board staff.		
<input type="checkbox"/> 8. Target 2. Conduct water quality assessment for beneficial		

## Appendix 1-3: Online Submittal Acknowledgement and Form

use attainment within 75 percent of surface waters by 2015.	
<input type="checkbox"/> 9. Target 3. Assess and validate Basin Plan beneficial uses and water quality objectives for the Region's watersheds by 2017.	
<input type="checkbox"/> 10. Target 4. By 2013, develop an agreed-upon system and metrics for tracking groundwater assessment information.	
<input type="checkbox"/> 11. Target 5. By 2015, develop an agreed-upon system and metrics for evaluating ocean water quality and marine habitat.	
<b>Objective D: Develop and maintain a diverse mix of water resources.</b>	
<input checked="" type="checkbox"/> 12. Target 1. Increase water conservation savings from about 51,090 AFY in 2006 to at least 79,960 AFY by 2010 and 108,400 AFY by 2030.	checked
	The project will maintain the availability of groundwater supplies in the area.
<input type="checkbox"/> 13. Target 2. Increase seawater desalination capability within the region from zero AFY to 34,690 AFY by 2015.	
<input type="checkbox"/> 14. Target 3. Increase recycled water use from about 14,830 AFY in 2006 to 33,670 AFY by 2010 and 47,580 AFY by 2030.	
<input checked="" type="checkbox"/> 15. Target 4. Increase groundwater supply within the Water Authority service area from about 14,960 AFY in 2006 to 28,580 AFY by 2010 and 31,180 AFY by 2030.	checked
	The stream stabilization portion of the project will enhance recharge in the San Marcos Area and assist in meeting the groundwater supply availability for agricultural use.
<input type="checkbox"/> 16. Target 5. Implement Colorado River conservation and transfer programs, increasing deliveries from 35,000 AFY in 2006 to 277,700 AFY by 2030.	
<input type="checkbox"/> 17. Target 6. Include an analysis in the Water Authority 2010 Urban Water Management Plan that assesses the effect of climate change on future water supplies.	
<input type="checkbox"/> 18. Target 7. Develop and implement regional drinking water source protection guidelines for the Region by 2012.	
<input type="checkbox"/> 19. Target 8. Meet groundwater supply and water quality objectives identified in the County's General Plan 2020 for groundwater-dependent communities by 2012.	
<b>Objective E: Construct, operate, and maintain a reliable infrastructure system.</b>	
<input type="checkbox"/> 20. Target 1. Develop facilities and manage supplies to ensure adequate emergency and carry-over deliveries.	
<input type="checkbox"/> 21. Target 2. Increase local	

## Appendix 1-3: Online Submittal Acknowledgement and Form

treatment of imported and local surface waters from 597 mgd to 860 mgd in 2010 and 920 mgd in 2030.	
<input type="checkbox"/> 22. Target 3. Develop the conveyance facilities necessary to deliver a reliable supply and assure adequate resources to maintain existing conveyance system	
<input type="checkbox"/> 23. Target 4. Develop the infrastructure needed to support the targets identified for developing recycled water, desalination, and groundwater supplies.	
<b>Objective F: Reduce the negative effects on waterways and watershed health caused by hydromodification and flooding.</b>	
<input type="checkbox"/> 24. Target 1. Develop and implement regional standards for Low Impact Development (LID) practices by 2010.	
<input type="checkbox"/> 25. Target 2. Develop and implement regional approaches to hydromodification management by 2010.	
<input type="checkbox"/> 26. Target 3. By 2010, implement a system to track rates of change in area of impervious surfaces regionally.	
<b>Objective G: Effectively reduce sources of pollutants and environmental stressors.</b>	
<input checked="" type="checkbox"/> 27. Target 1. Implement Total Maximum Daily Loads (TMDLs) according to established schedules.	The project is part of an overall plan to reduce nutrient loading in advance of the scheduled nutrient TMDL. The project is located in a voluntary TMDL process and the stream stabilization portion of the project is a key element in the overall load reduction plan that will be identified for all stakeholders.
<input checked="" type="checkbox"/> 28. Target 2. Reduce or avoid the need for TMDLs by monitoring and managing impacts to receiving waters, with an emphasis on 303(d)-listed water bodies and other Environmentally Sensitive Areas.	The project is part of an overall plan to reduce nutrient loading in advance of the scheduled nutrient TMDL and avoid the need for a TMDL. The project is located in a voluntary TMDL process and the stream stabilization portion of the project is a key element in the overall load reduction plan that will be identified for all stakeholders.
<input type="checkbox"/> 29. Target 3. Develop by 2012 a regional management plan for Total Dissolved Solids (TDS).	
<input checked="" type="checkbox"/> 30. Target 4. Develop and implement comprehensive source management strategies to address regionally-significant constituents (e.g., pathogens, nutrients, sediments).	The project is part of an overall plan to reduce nutrient loading in advance of the scheduled nutrient TMDL and avoid the need for a TMDL. The project is located in a voluntary TMDL process and the stream stabilization portion of the project is a key element in the overall load reduction plan that will be identified for all stakeholders.
<input type="checkbox"/> 31. Target 5. Reduce the frequency of sanitary sewer overflows in excess of 1,000 gallons from 180 overflows per year in 2005 to 120 overflows per year in 2012.	
<input type="checkbox"/> 32. Target 6. Reduce the volume of sanitary sewer overflows per mile of collection system.	
<b>Objective H: Protect, restore and maintain habitat and open space.</b>	
<input type="checkbox"/> 33. Target 1. Conserve by 2012 a minimum of 10,000 acres of habitat and open space, including functional	

## Appendix 1-3: Online Submittal Acknowledgement and Form

riparian habitat and associated buffer habitat, and functional wetland habitat.	
<input type="checkbox"/> 34. Target 2. Restore by 2012 a minimum of 1,000 acres of habitat and open space, functional riparian habitat and associated buffer habitat, and functional wetland habitat.	
<input type="checkbox"/> 35. Target 3. Remove and control a minimum of 1,000 acres of non-native invasive plants by 2012.	
<input type="checkbox"/> 36. Target 4. Monitor, manage, control, and prevent establishment of nuisance aquatic species in the Region.	
<b>Objective I: Optimize water-based recreational opportunities.</b>	
<input type="checkbox"/> 37. Target 1. Develop 200 acres of water-based recreational open space that focuses on underserved areas and ensures equal access for disadvantaged communities.	
<input type="checkbox"/> 38. Target 2. By 2015 provide 20 new public access points (boat launch facilities, fishing floats or piers, swim beaches, trails, stairs, parking areas, or similar) to recreational surface waters.	

